## Patent claims

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- 1. Method for the production of plastic skins by powder 5 sintering, in which powder is applied to a forming tool where it forms a plastic skin by sintering, a partial area of the forming tool being made inaccessible for the powder by means of a sealing device, at least in a first pulverisation step, 10 characterised in that the forming tool has a separating web along an edge of the partial area and in that a mask having a preferably inflatable sealing edge serves as a sealing device, the mask abutting with the sealing edge against the separating web during the first pulverisation step 15 and being secured solely to the forming tool.
- Production method according to claim 1,
   characterised in that the first pulverisation step
   is followed by at least one additional pulverisation
   step, preferably to produce a plastics material
   layer which is of a different colour from a first
   plastics material layer produced in the first
   pulverisation step, the mask being removed for the
   additional pulverisation step.
  - 3. Production method according to one of claims 1 or 2, characterised in that the separating web is undercut and thus forms a groove which is open towards the partial area and in which the sealing edge comes to rest during the first pulverisation step.
    - 4. Production method according to one of claims 1 to 3, characterised in that the forming tool consists of

nickel, at least at a surface which receives the plastic skin being produced.

- 5. Production method according to one of claims 1 to 4, characterised in that the sealing edge of the mask consists of silicon or a duroplastic elastomer.
- 6. Production method according to one of claims 1 to 5, characterised in that the plastic skin is provided

  10 with areas of differing graining due to the different graining of a surface receiving the plastic skin being produced, inside and outside the partial area.
- 7. Production method according to one of claims 1 to 6, characterised in that, due to a three-dimensional contour of a surface of the forming tool receiving the plastic skin during the powder sintering process, said plastic skin obtains a correspondingly three-dimensional contour, and possibly due to a three-dimensional course of the separating web, on the plastic skin a separating line having a correspondingly three-dimensional course is produced between surface areas of differing colour and/or graining.
- 8. Sintering tool for producing plastic skins by powder sintering, which has a forming tool with a surface for receiving a plastic skin being produced and which has a sealing device for separating a partial area of the surface, characterised in that the forming tool has a separating web on the surface along an edge of the partial area, and in that the sealing device is designed as a mask having a

preferably inflatable sealing edge, which is to be secured to the surface in such a way that the partial area is covered by the mask and the sealing edge abuts against the separating web.

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- 9. Sintering tool according to claim 8, characterised in that, when the mask is secured to the surface, it is solely secured to the forming tool.
- 10 10. Sintering tool according to one of claims 8 or 9, characterised in that the separating web is undercut and forms a groove which is open towards the partial area and in which the mask, when secured, abuts with the sealing edge against the separating web.

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- 11. Sintering tool according to one of claims 8 to 10, characterised in that the forming tool has a shell with a wall thickness of between 2 mm and 6 mm, preferably between 2 mm and 4 mm, for receiving the plastic skin being produced.
- 12. Sintering tool according to one of claims 8 to 11, characterised in that the forming tool is double-walled for guiding a preferably liquid heating medium and/or coolant in a cavity between two walls.
- 13. Sintering tool according to one of claims 8 to 12, characterised in that it has at least one powder box on which the forming tool may be placed, the sintering tool being preferably mounted so as to be rotatable about a horizontal axis.

- 14. Sintering tool according to one of claims 8 to 13, characterised in that the forming tool consists of nickel, at least at the surface.
- 5 15. Sintering tool according to one of claims 8 to 14, characterised in that the sealing edge of the mask consists of silicon or a duroplastic elastomer.
- 16. Sintering tool according to one of claims 8 to 15, characterised in that the mask has a thickness of between 1 mm and 6 mm, preferably between 2 mm and 4 mm and/or the sealing edge, when inflated, has a thickness of between 5 mm and 20 mm, preferably between 10 mm and 15 mm.

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- 17. Sintering tool according to one of claims 8 to 16, characterised in that the separating web has a height of between 2 mm and 7 mm, preferably between 3 mm and 5 mm and/or a width of between 1 mm and 6 mm, preferably between 2 mm and 4 mm.
- 18. Sintering tool according to one of claims 10 to 17, characterised in that the groove has a depth of between 0.2 mm and 2 mm, preferably between 0.3 mm
- and 1 mm.
  - 19. Sintering tool according to one of claims 8 to 18, characterised in that the surface has differing graining inside and outside the partial area.

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20. Sintering tool according to one of claims 8 to 19, characterised in that the surface has a threedimensional contour.

- 21. Sintering tool according to one of claims 8 to 20, characterised in that the separating web has a three-dimensional course.
- 5 22. Plastic part which has on one surface a plastic skin produced by means of a production method according to one of claims 1 to 7, the plastic skin preferably having inside at least one area a surface of a different colour and/or different graining and at least one plastics material layer less than outside this area.
- 23. Plastic part according to claim 22, characterised in that the plastic skin is back-foamed, preferably with polyurethane, the plastic part having in a particularly preferred manner a support which is foamed round or on.
- 24. Plastic part according to claim 22, characterised in that the plastic skin is back-sprayed, preferably with a back-spraying compound containing polypropylene.